



# The role of Librarian (Research Outputs and Impact) at University of Queensland Library

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Library

University of Queensland

Brisbane, Australia



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# Overview

# Overview

1. Research Outputs and Impact team at University of Queensland Library
2. Research Metrics
  - Part 1: Metrics 101
  - Part 2: Author metrics
  - Part 3: Journal quality
  - Part 4: Article metrics
  - Part 5: Altmetric
3. What is it for me?



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# Research Outputs and Impact team at University of Queensland Library



# Scholarly Communication and Repository Services (SCARS)

- **Research Outputs and Impact**

- Training and advice for research metrics and research data management
- Grant-writing support and UQ collaborative publication reports
- Research data management planning and publishing

- **Scholarly Publishing**

- Publishing advice
- Open access advice, training and support
- Digital publishing initiatives

- **UQ eSpace**

- University of Queensland institutional repository
- Collects and manages research outputs, research data, special collections and Higher Degree by Research (HDR) theses
- Provides publication data and metrics for government reporting, researcher profiles and internal measures

# The Research Outputs and Impact (ROI) team

- Research Data Management (RDM)
- Metrics

Current team (11 people):

1 Manager, 1 Senior Librarian, 2 Data Analysts, and 7 Librarians

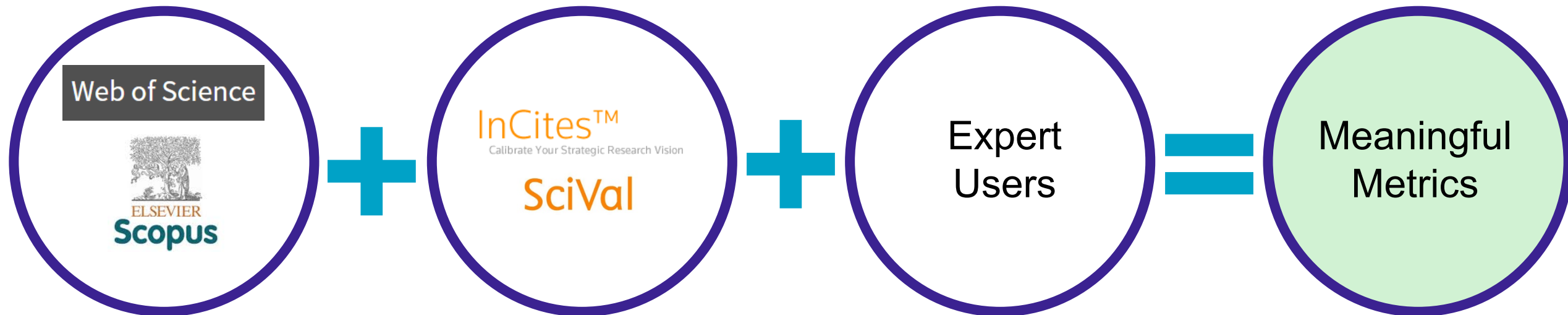
# Metrics: Who do we work with?

- Senior executive: Vice Chancellor (President) Office, Deputy Vice-Chancellor (Research), Sponsored Research, International Office (Global Engagement)
- Heads of School, Faculty, Institute Directors
- Research Managers and Administration Staff
- Research Committees
- Individual Researchers and Research Teams

....In collaboration with Liaison Librarians

# Best practice<sup>1</sup>

Care must be taken in ensuring that the information is relevant, meaningful, accurate, and appropriate and that caveats are well understood



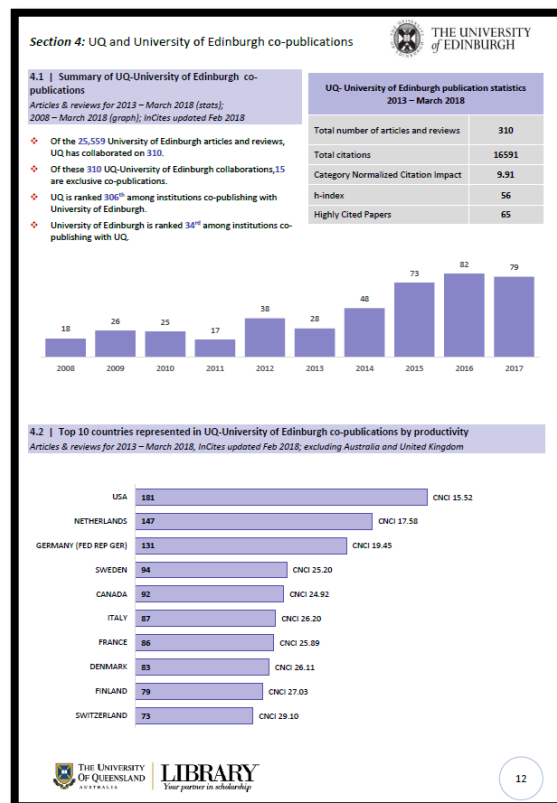
<sup>1</sup><http://www.nature.com/news/bibliometrics-the-leiden-manifesto-for-research-metrics-1.17351>

# Data sources & tools—one size does not fit all

- UQ eSpace (UQ institutional repository)
- Scopus
- SciVal
- Scopus Custom Dataset
- Web of Science
- InCites
- Altmetric
- The Lens
- ORCID
- CrossRef



# Collaborative Publications Reports



## UQ-University of Delhi Co-publishing Overview

Articles & Reviews for 2013–2017; InCites updated Feb 2018

Total Publications	CNCI	Top 5 WoS Subject Areas by Productivity	Publications	CNCI	Highly Cited Papers
21	21.88	Medicine, General & Internal	6	8.95	0
		Public, Environmental & Occupational Health	5	68.95	5
		Genetics & Heredity	3	7.66	1
		Ecology	2	6.07	0
		Evolutionary Biology	2	6.07	0

## Top UQ-University of Delhi Collaborating Authors by Productivity

All publication types for 2012–2017; SciVal updated Feb 2018 | Non-UQ authors may not be currently affiliated with institution

UQ Author	Co-authored publications	Top 3 co-authors at University of Delhi
Gouda, Hebe N. <i>School of Public Health</i>	5	Gupta, Vipin Bihari (4 co-authored publications); Miller, Ted R. (1)
McGrath, John J. <i>School of Clinical Medicine; Queensland Brain Institute</i>	5	Gupta, Vipin Bihari (4 co-authored publications); Miller, Ted R. (1)
Guo, Yuming <i>School of Public Health</i>	5	Gupta, Vipin Bihari (4 co-authored publications); Miller, Ted R. (1)
Alam, Noore K.M. <i>School of Public Health</i>	3	Gupta, Vipin Bihari (2 co-authored publications); Miller, Ted R. (1)
		Gupta, Vipin Bihari (3 co-authored publications)



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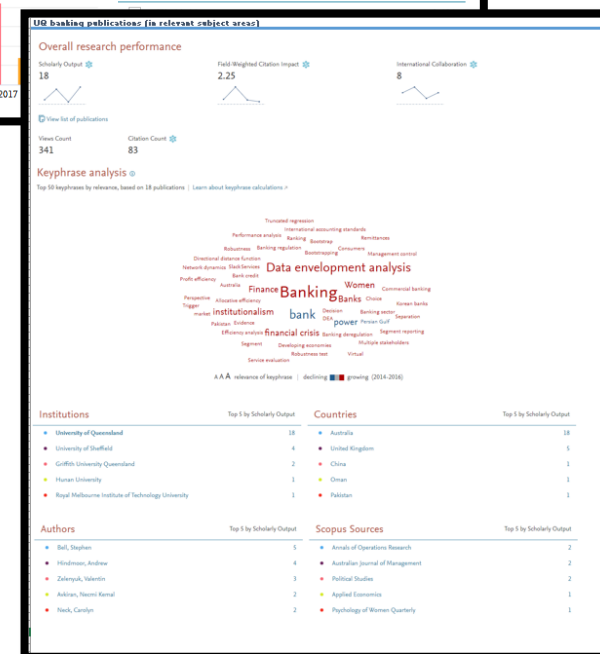
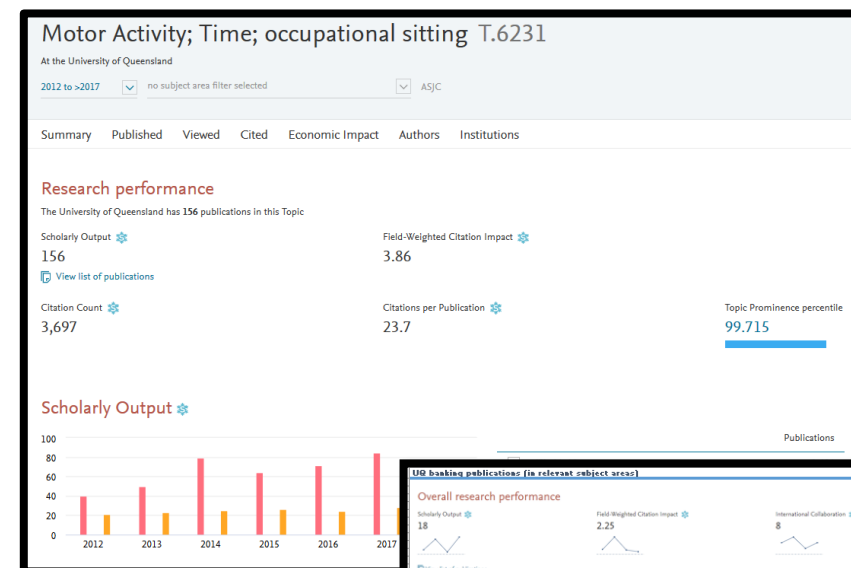
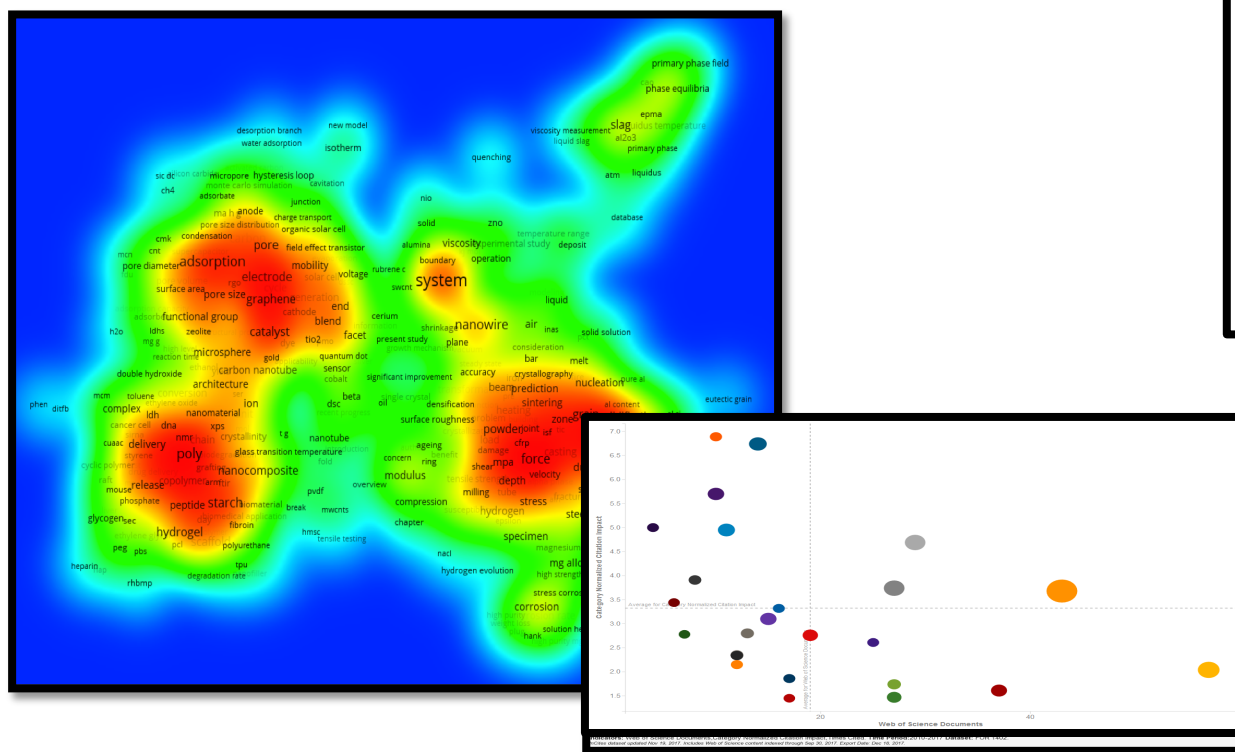
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MARYLAND

QS 47<sup>th</sup> THE 65<sup>th</sup> ARWU 55<sup>th</sup>

QS 129<sup>th</sup> THE 69<sup>th</sup> ARWU 53<sup>rd</sup>

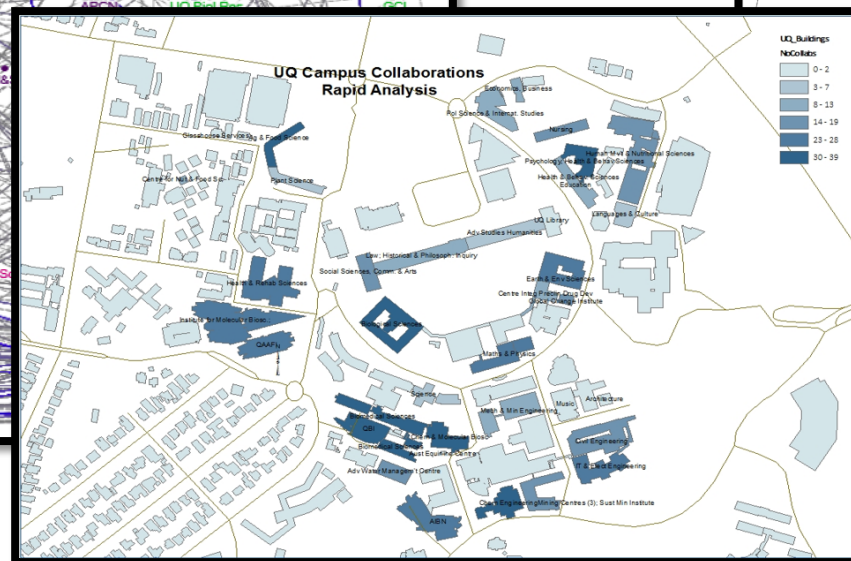
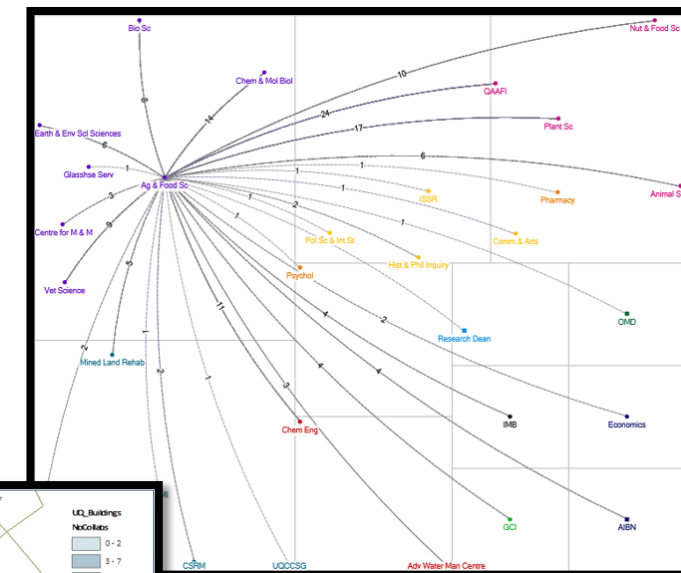
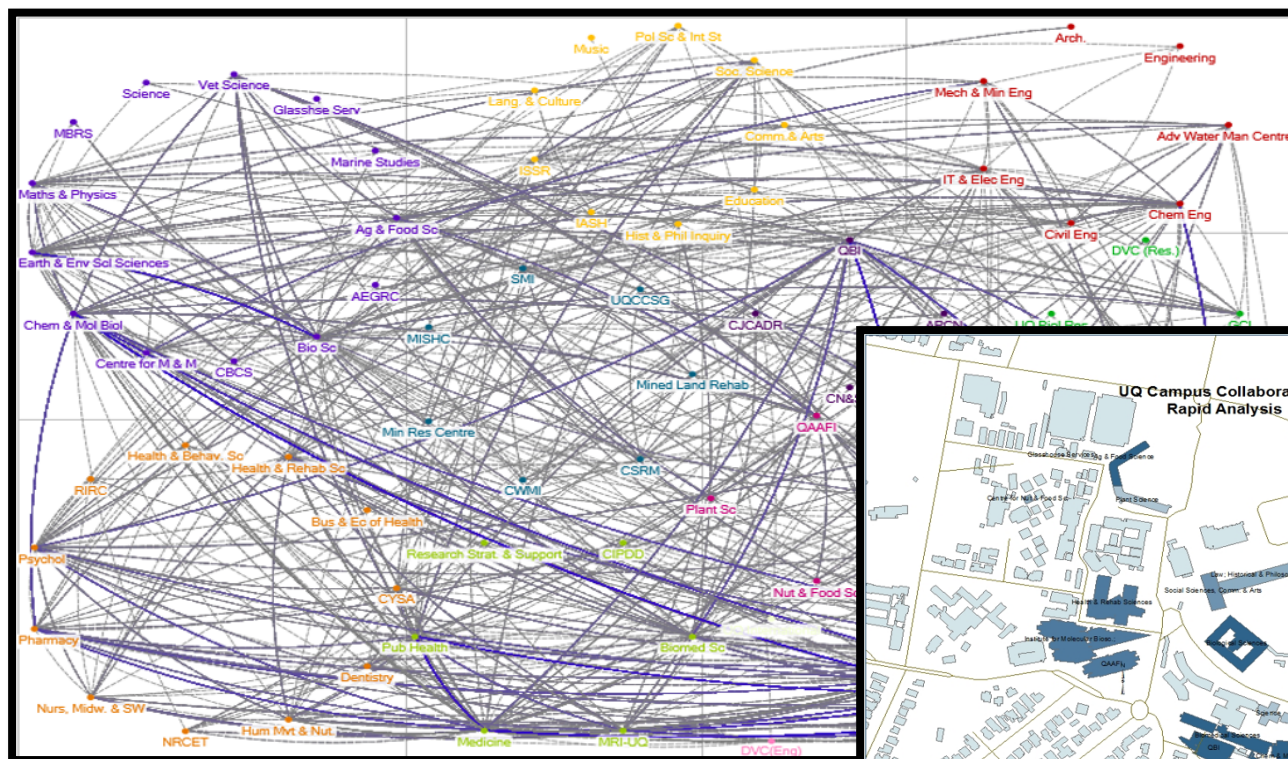
UQ-University of Maryland College Park  
Collaborative Publications Report

# Capability mapping



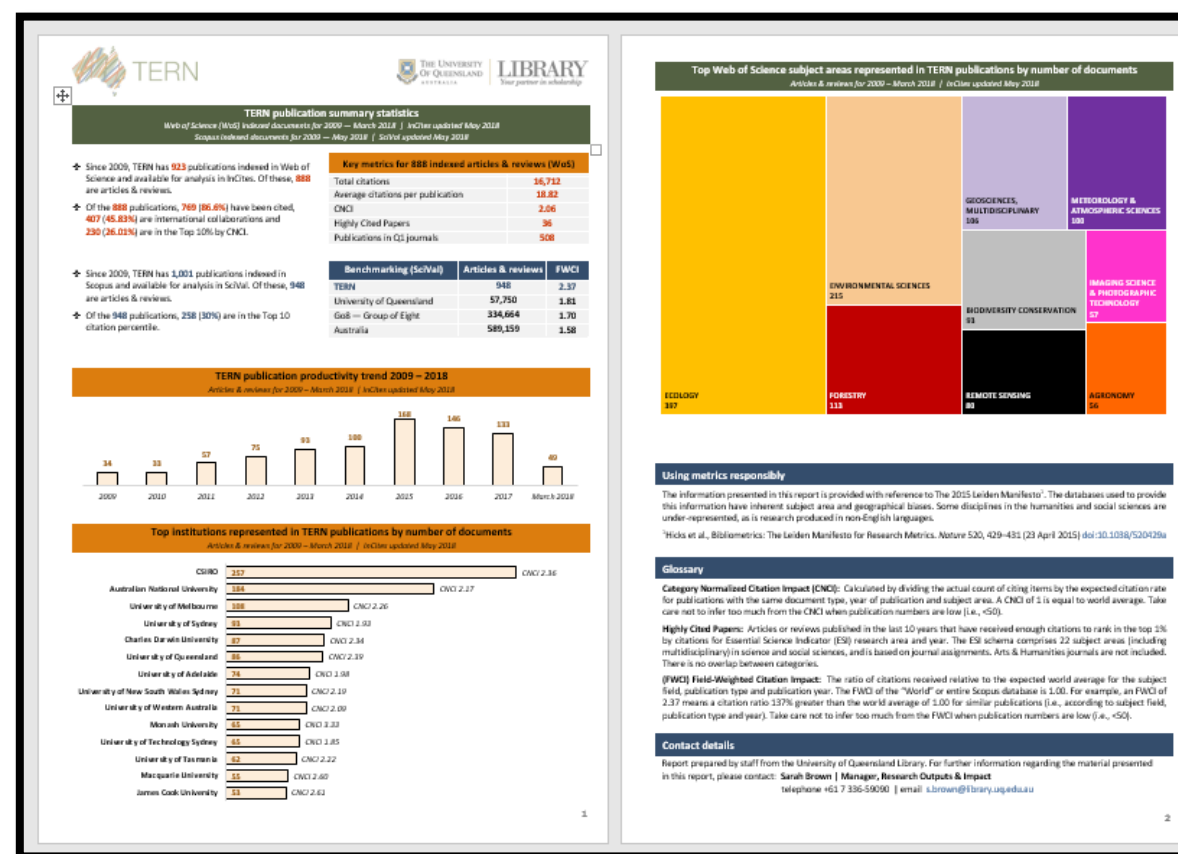
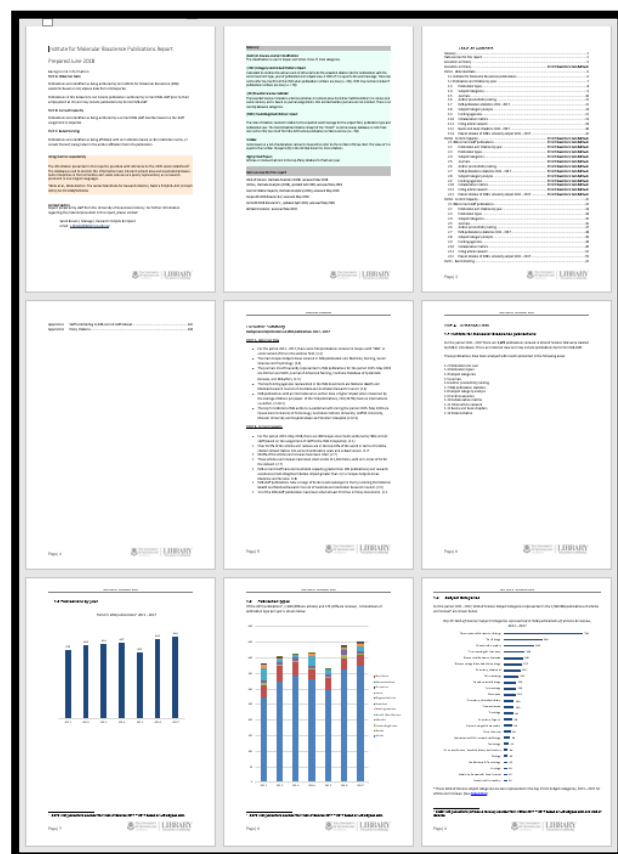


# Internal Collaboration





# Faculties, Institutes, Schools, Centre of Excellences...



# Individual and group

Analysis of citing articles			
Journals in which your work has been cited		Subject areas of citing authors	
Source title	No. docs	Subject area	No. docs
Journal Of Economic Behavior And Organization	11	Economics, Econometrics and Financial	97
Journal Of Economic Psychology	8	Social Sciences	46
Economic Inquiry	6	Business, Management and Accounting	37
Journal Of Regulatory Economics	5	Environmental Science	33
Ecological Economics	4	Psychology	22
Environmental And Resource Economics	4	Agricultural and Biological Science	14
Journal Of Environmental Economics And Management	4	Engineering	11
Economics Letters	3	Decision Sciences	9
Journal Of Behavioral And Experimental Finance	3	Medicine	9
Annual Review Of Resource Economics	2	Arts and Humanities	6
Deviant Behavior	2	Energy	6
Energy Economics	2	Computer Science	5
Environmental Economics And Policy Studies	2	Chemical Engineering	2
European Economic Review	2	Biochemistry, Genetics and Molecular Biology	1
International Review Of Law And Economics	2	Immunology and Microbiology	1
Journal Of Agricultural Economics	2	Mathematics	1
Journal Of Environmental Planning And Management	2	Multidisciplinary	1
Journal Of Law Economics And Organization	2		
Journal Of Risk And Uncertainty	2		
Labour Economics	2		
Management Science	2		
Memory	2		
Resource And Energy Economics	2		
Southern Economic Journal	2		
Theory And Decision	2		
Accident Analysis And Prevention	1		
Agricultural And Resource Economics Review	1		
American Economic Journal Microeconomics	1		
American Economic Review	1		
American Journal Of Agricultural Economics	1		
American Journal Of Criminal Justice	1		
Annual Review Of Political Science	1		
Archiv Fur Lebensmittelhygiene	1		
Asia Pacific Management Review	1		
Ciencia E Investigacion Agraria	1		
Conservation Biology	1		
Current Opinion In Psychology	1		
Econometrica	1		
Economic Record	1		
Election Law Journal Politics And Policy	1		
Energy Research And Social Science	1		
Environmental Modelling And Assessment	1		

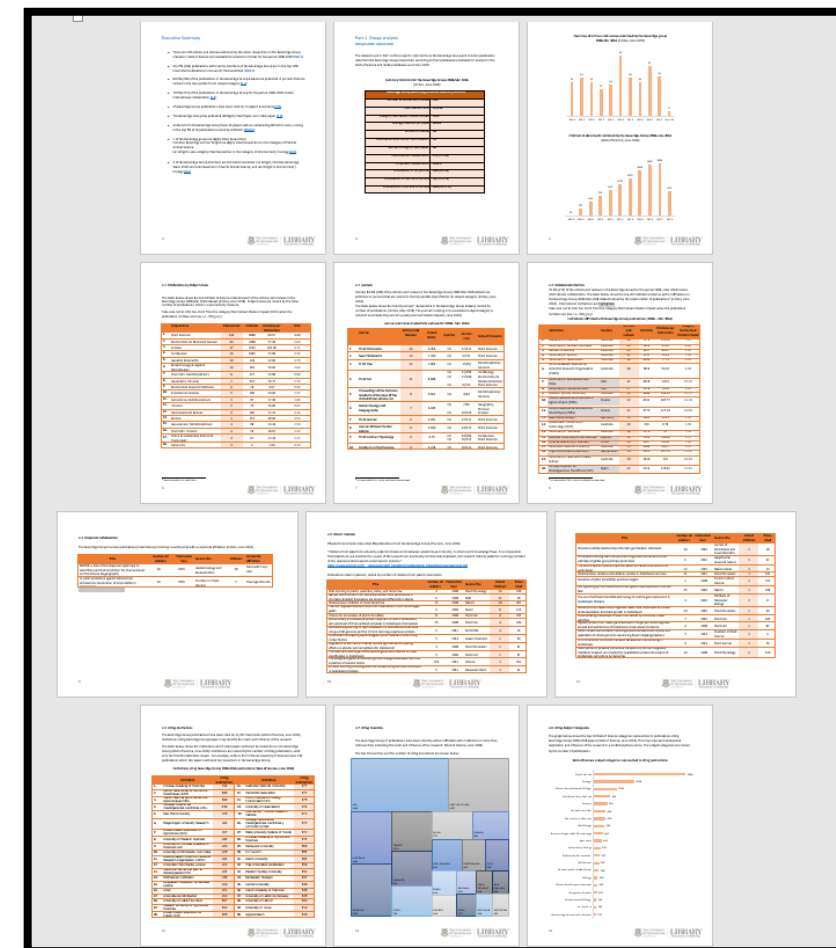
  

Institutions the citing authors are affiliated with		Countries of citing authors	
Affiliation	No. docs	Country	No. docs
The College of William and Mary	6	United States	68
Monash University	6	Germany	26
University of Queensland	6	United Kingdom	18
UC Berkeley	5	Australia	17
University of East Anglia	4	Netherlands	9
Duke University	4	Sweden	9
Christian-Albrechts-Universität zu Kiel	4	Canada	8
George Mason University	4	Denmark	7
Ludwig-Maximilians-Universität München	4	France	6
Københavns Universitet	4	Japan	6
Brock University	3	China	5
University of Waikato	3	Czech Republic	4
University of South Florida Tampa	3	New Zealand	4
Queensland University of Technology	3	Norway	4
Göteborgs Universitet	3	Spain	4
Vysoká škola ekonomická v Praze	3	Taiwan	4
Tilburg University	3	Austria	2
Maastricht University	3	Belgium	2
Syddansk Universitet	3	Chile	2
University of Virginia	3	Finland	2
Universität Göttingen	3	Poland	2
Institut für Weltwirtschaft an der Universität zu Köln	3	Switzerland	2
University of Sheffield	2	Uruguay	2
Karlstads universitet	2	Hong Kong	1
University of Northumbria	2	Hungary	1
Claremont McKenna College	2	Israel	1
Fateh University	2	Mexico	1
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University of Kansas	2	South Africa	1
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Université Paris 1 Panthéon-Sorbonne	2		

Of authors citing Associate Professor Friesen's work, 92% are international, with 30% of these from the United States demonstrating the far reaching impact of her work (source Scopus 20/11/2017).

38.5% of articles indexed in Scopus also have international collaborators, which indicates that Associate Professor Friesen has strong international links (source, SciVal 20/11/2017).

Note to Lana: You may wish to combine these into one statement.

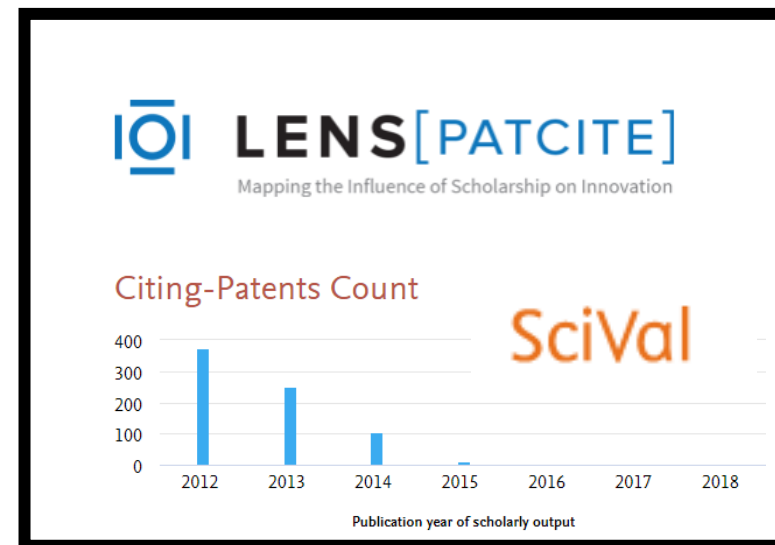


# Engagement and Impact

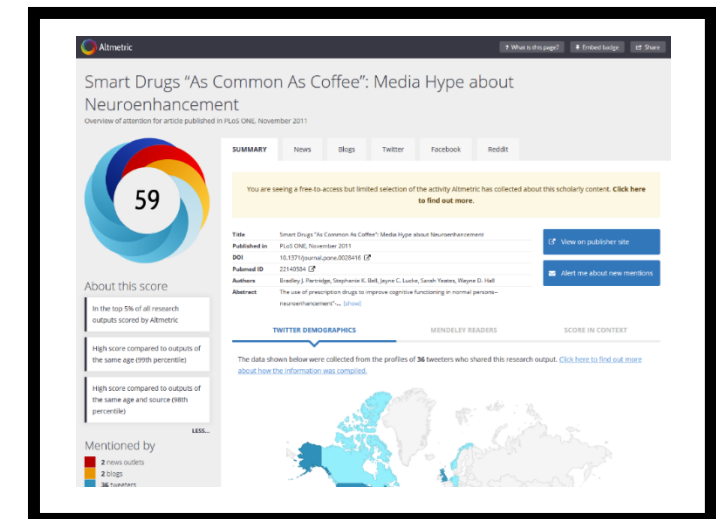
## End-User Co-Publication/Funder Analysis



## Patent Citation



## Alternative Metrics





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# Research Metrics



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# Part 1: Metrics 101

# Why Metrics?

Publication output and related citations *may* indicate research quality.

Metrics provide *supporting evidence* of claims individuals/research groups make about their:

- track record
- contribution to the discipline and/or significance of the contribution
- international profile
- capacity to collaborate effectively

**You can use metrics to differentiate yourself from other researchers**

# Metrics: The standard 5

1. Number of publications (productivity)
2. Career citation count
3. Citations per paper
4. % cited (or % uncited)
5. H-index

**These numbers tell us something, but there is a lot missing.**

# H-INDEX

The h-index (JE Hirsch) proposed in 2005 as a measure of research influence of a scientist.

h-index = number of papers with citation number greater than or equal to h

e.g., If your h-index is 15, you have 15 papers cited at least 15 times.



# H-INDEX: Is it meaningful?

## Use the h-index measure with care.

Citation patterns vary across disciplines

- *h-indices in Genetics are much higher than in Business*

Researchers in different disciplines cannot be compared using the h-index.

Even within the same discipline, the h-index should not be used alone as a measure of research quality.

Researchers in the same discipline at different stages of their careers can not be compared using the h-index.

# H-INDEX: Is it meaningful?

	Researcher 1 cites per paper	Researcher 2 cites per paper	Researcher 3 cites per paper
Paper 1	100	50	15
Paper 2	90	50	15
Paper 3	70	45	14
Paper 4	50	45	14
<b>Paper 5</b>	<b>35</b>	<b>5</b>	<b>12</b>
Paper 6	4	4	4
Paper 7	0	2	4
Paper 8	0	0	4
Paper 9	0	0	4
Paper 10	0	0	4
<b>Average cites per paper</b>	<b>35.3</b>	<b>20.1</b>	<b>9.0</b>

# Citation tracking systems (measure differently)






	Clarivate Analytics	Elsevier	Google	Other
<b>Citations</b>	<a href="#">Web of Science</a>	<a href="#">Scopus</a>	<a href="#">Google Scholar</a>	—
<b>Benchmarking</b>	<a href="#">InCites</a>	<a href="#">SciVal</a>	n/a	—
<b>Author Identifiers/Profiles</b>	<a href="#">ResearcherID</a>	<a href="#">ScopusID</a>	Google Scholar Profile (& make public)	<a href="#">ORCID</a>



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# Part 2: Author Metrics

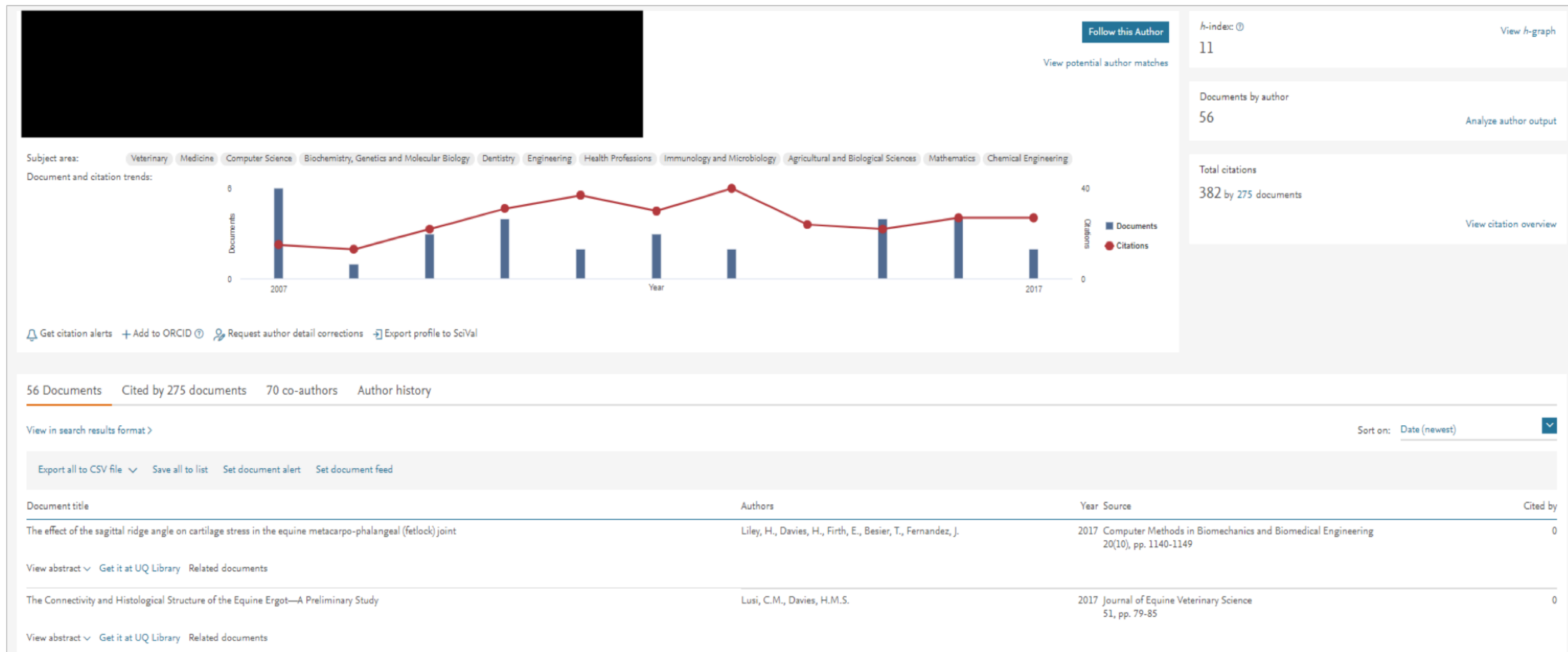
140

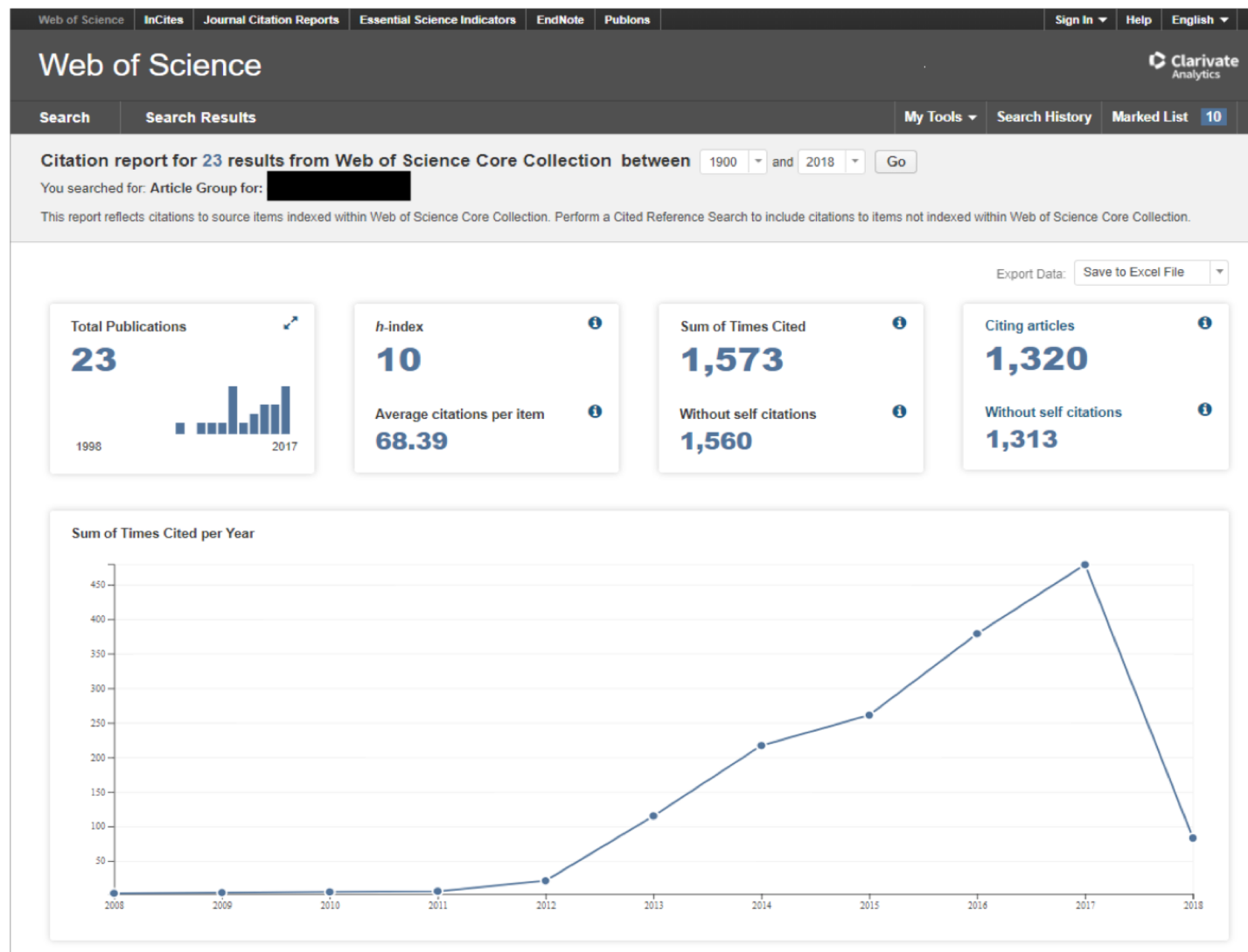
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For: AUTHOR: [Redacted] More

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Search within results for... 🔍

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- ☐ Highly Cited in Field (3)
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- ☐ Open Access (13)
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Refine

**Publication Years**

- ☐ 2012 (5)
- ☐ 2017 (5)
- ☐ 2015 (3)
- ☐ 2016 (3)

Sort by: Date Times Cited Usage Count Relevance More

Page 3 of 3

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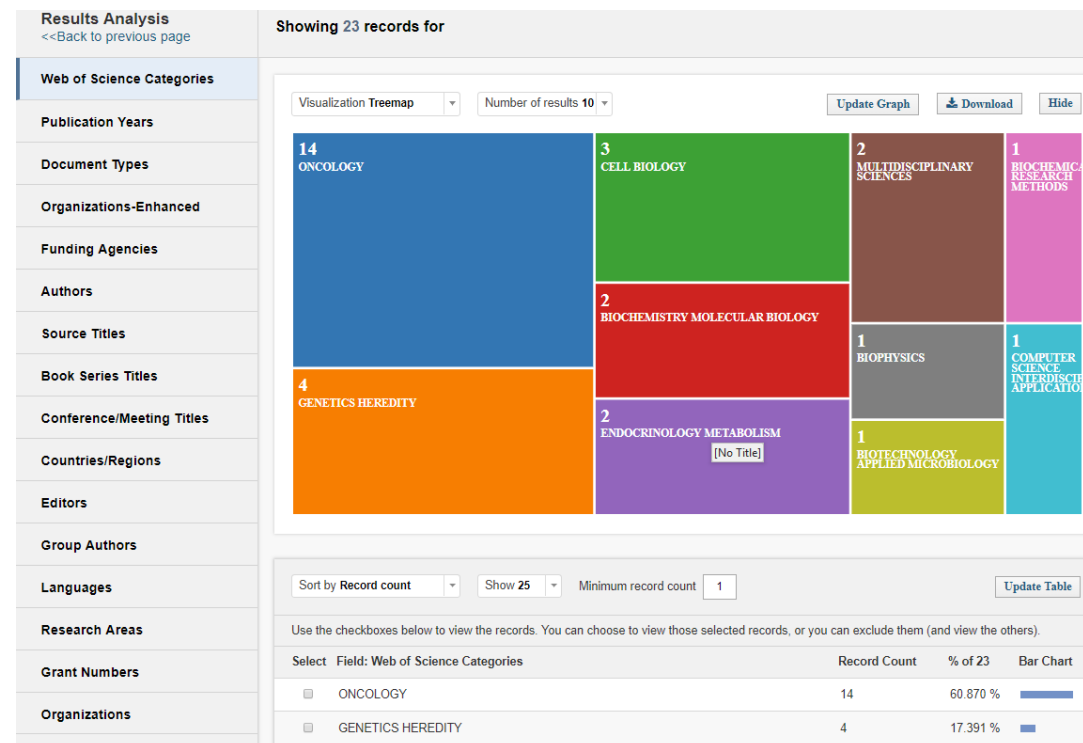
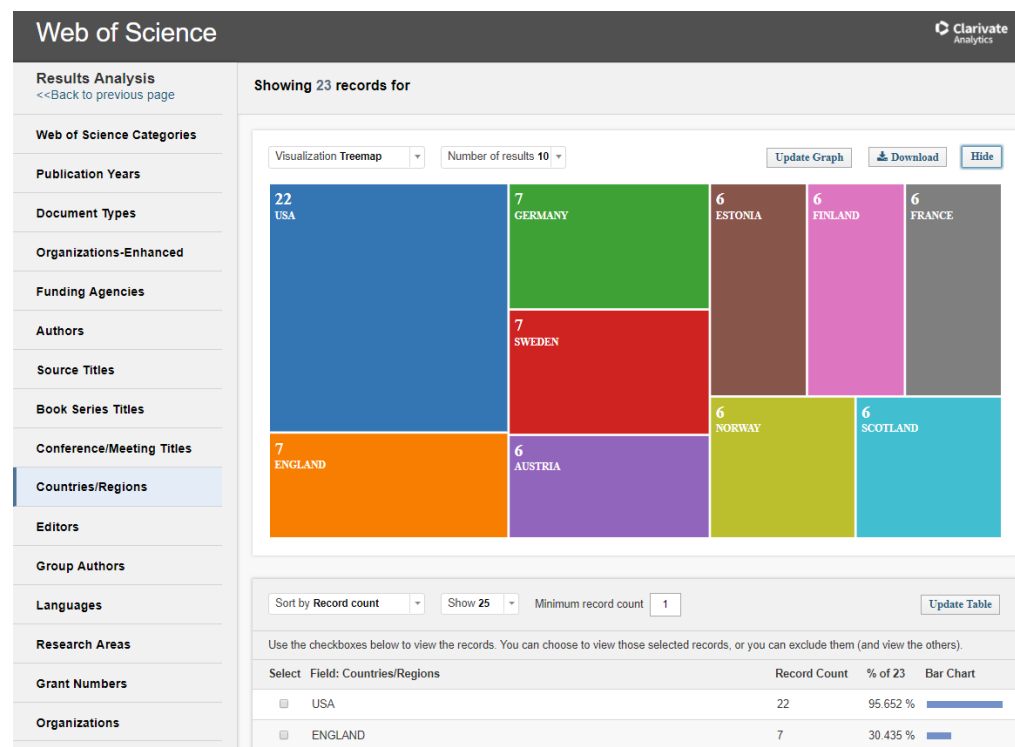
21. **Transcription factor, Id4, induced cellular reprogramming of cancer cells using an advanced prostate cancer cell model**  
By: Carey, J. P.; Chaudhary, J. C.; Asirvatham, A. J.; et al.  
Conference: 22nd EORTC-NCI-AACR Symposium on Molecular Targets and Cancer Therapeutics Location: Berlin, GERMANY Date: NOV 16-19, 2010  
EJC SUPPLEMENTS Volume: 8 Issue: 7 Pages: 185-186 Published: NOV 2010  
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22. **Inhibitor of differentiation 4 (Id4) is a potential tumor suppressor in prostate cancer**  
By: Carey, Jason P. W.; Asirvatham, Ananthi J.; Galm, Oliver; et al.  
BMC CANCER Volume: 9 Article Number: 173 Published: JUN 7 2009  
 Get it at UQ Library Free Full Text from Publisher View Abstract

23. **ID1-, ID2-, and ID3-regulated gene expression in E2A positive or negative prostate cancer cells**  
By: Asirvatham, Ananthi J.; Carey, Jason P. W.; Chaudhary, Jaideep  
PROSTATE Volume: 67 Issue: 13 Pages: 1411-1420 Published: SEP 15 2007  
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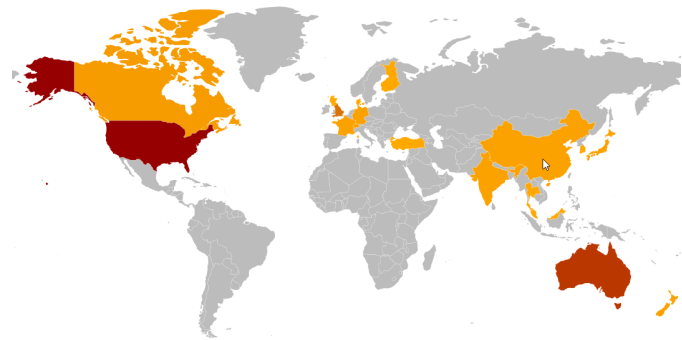
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# Using metrics as evidence

**I have productive  
international/national  
collaborations...**



**Analyse your co-author network by country and/or institution.**

**What % of your WoS indexed articles have a non-UQ author or an overseas co-author?**

**Corporate collaboration?**

***“70% of my journal articles have non-UQ Australian based co-authors, with 15% of my papers involving international co-authors, including 3 papers with Harvard based co-authors...”  
(Web of Science, April 2018)***



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## Part 3: Journal quality

# Journal quality measures

- Journal (not article) level metric
- Discipline specific

# Journal Quality Measures

- Cite Score (Scopus)
- Journal Impact Factor (Clarivate)
- Eigenfactor (Clarivate)
- SJR (SCImago)
- Australian Business Deans Council (ABDC) Journal Quality List — Business, Economics
- Arts & Humanities Citation Indexed Journal List
- European Reference Index of the Humanities
- Australian Public Affairs Information Service

# Using metrics as evidence

**My publishing  
track record**

***80% of my publications from 2013–2018  
are in Quartile 1 journals***  
(Source: JCR Web, April 2018).

***I have two 2016 publications in the  
Journal of Early Childhood, which is the  
2<sup>nd</sup> ranked journal in the category of  
Education***  
(Source: Scopus, April 2018).

# Journal quality measures

If you are interested in Journal Rankings you can look at:

- *Journal Citation Reports*
- *Scopus Journal Metrics*
- *ABDC List*





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# Part 4: Article metrics



## zCall: a rare variant caller for array-based genotyping

### Associated Data

**By:** Goldstein, JI (Goldstein, Jacqueline I.)<sup>[1,2,3]</sup>; Crenshaw, A (Crenshaw, Andrew); Carey, J (Carey, Jason); Grant, GB (Grant, George B.); Maguire, J (Maguire, Jared)<sup>[3]</sup>; Fromer, M (Fromer, Menachem)<sup>[1,2,3,4]</sup>; O'Dushlaine, C (O'Dushlaine, Colm)<sup>[5]</sup>; Moran, JL (Moran, Jennifer L.)<sup>[5]</sup>; Chambert, K (Chambert, Kimberly)<sup>[5]</sup>; Stevens, C (Stevens, Christine)<sup>[3]</sup> ...More

**Group Author(s):** Swedish Schizophrenia Consortium ; ARRA Autism Sequencing Consortium

[View ResearcherID and ORCID](#)

### BIOINFORMATICS

**Volume:** 28 **Issue:** 19 **Pages:** 2543-2545

**DOI:** 10.1093/bioinformatics/bts479

**Published:** OCT 1 2012

**Document Type:** Article

[View Journal Impact](#)

### Abstract

zCall is a variant caller specifically designed for calling rare single-nucleotide polymorphisms from array-based technology. This caller is implemented as a post-processing step after a default calling algorithm has been applied. The algorithm uses the intensity profile of the common allele homozygote cluster to define the location of the other two genotype clusters. We demonstrate improved detection of rare alleles when applying zCall to samples that have both Illumina Infinium HumanExome BeadChip and exome sequencing data available.

### Author Information

**Reprint Address:** Neale, BM (reprint author)

+ Massachusetts Gen Hosp, Dept Med, Analyt & Translat Genet Unit, Boston, MA 02114 USA.

### Addresses:

- + [ 1 ] Massachusetts Gen Hosp, Dept Med, Analyt & Translat Genet Unit, Boston, MA 02114 USA
- + [ 2 ] Harvard Univ, Sch Med, Boston, MA 02114 USA
- + [ 3 ] Broad Inst MIT & Harvard, Program Med & Populat Genet, Cambridge, MA 02142 USA
- + [ 4 ] Mt Sinai Sch Med, Dept Psychiat, Div Psychiat Genom, New York, NY 10029 USA
- + [ 5 ] Broad Inst MIT & Harvard, Stanley Ctr Psychiat Res, Cambridge, MA 02142 USA

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### Most recently cited by:

Tsoi, Lam C.; Patrick, Matthew T.; Elder, James T.  
[Research Techniques Made Simple: Using Genome-Wide Association Studies to Understand Complex Cutaneous Disorders.](#)  
JOURNAL OF INVESTIGATIVE DERMATOLOGY (2018)

## Document details

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Molecular and Cellular Endocrinology  
Volume 382, Issue 1, 25 January 2014, Pages 726-739

### Genetics of diabetes - Are we missing the genes or the disease? (Article)

Groop, L.<sup>2b</sup> Pociot, F.<sup>2b</sup>

<sup>1</sup>Department of Clinical Sciences, Diabetes and Endocrinology, Lund University, University Hospital Skåne, Malmö, Sweden

<sup>2</sup>Glostrup Research Institute, Glostrup University Hospital, Glostrup, Denmark

#### Abstract

Diabetes is a group of metabolic diseases characterized by hyperglycemia resulting from defects in insulin secretion, insulin action, or both. The chronic hyperglycemia of diabetes is associated with long-term damage, dysfunction, and failure of different organs, especially the eyes, kidneys, nerves, heart, and blood vessels. Several pathogenic processes are involved in the development of diabetes. These range from autoimmune destruction of the beta-cells of the pancreas with consequent insulin deficiency to abnormalities that result in resistance to insulin action (American Diabetes Association, 2011). The vast majority of cases of diabetes fall into two broad categories. In type 1 diabetes (T1D), the cause is an absolute deficiency of insulin secretion, whereas in type 2 diabetes (T2D), the cause is a combination of resistance to insulin action and an inadequate compensatory insulin secretory response. However, the subdivision into two main categories represents a simplification of the real situation, and research during the recent years has shown that the disease is much more heterogeneous than a simple subdivision into two major subtypes assumes. Worldwide prevalence figures estimate that there are 280 million diabetic patients in 2011 and more than 500 million in 2030 (<http://www.diabetesatlas.org/>). In Europe, about 6-8% of the population suffer from diabetes, of them about 90% has T2D and 10% T1D, thereby making T2D to the fastest increasing disease in Europe and worldwide. This epidemic has been ascribed to a collision between the genes and the environment. While our knowledge about the genes is clearly better for T1D than for T2D given the strong contribution of variation in the HLA region to the risk of T1D, the opposite is the case for T2D, where our knowledge about the environmental triggers (obesity, lack of exercise) is much better than the understanding of the underlying genetic causes. This lack of knowledge about the underlying genetic causes of diabetes is often referred to as missing heritability (Manolio et al., 2009) which exceeds 80% for T2D but less than 25% for T1D. In the following review, we will discuss potential sources of this missing heritability which also includes the possibility that our definition of diabetes and its subgroups is imprecise and thereby making the identification of genetic causes difficult. © 2013.

View references (164)

#### Author keywords

GWAS LADA-MODY Type 1 diabetes Type 2 diabetes

#### Indexed keywords

EMTREE drug terms:

microRNA

EMTREE medical terms:

article clinical research copy number variation diabetes mellitus epigenetics exercise genetic linkage genetic variability genetics genotype environment interaction heritability HLA system human insulin dependent diabetes mellitus insulin release non insulin dependent diabetes mellitus nonhuman obesity prevalence priority journal systems biology

Medline keywords:

GWAS LADA-MODY Type 1 diabetes Type 2 diabetes

MeSH:

Diabetes Mellitus Epistasis, Genetic Gene-Environment Interaction Genes Genetic Predisposition to Disease Humans

ISSN: 03037207  
CODEN: MCEND  
Source Type: Journal  
Original language: English

DOI: 10.1016/j.mce.2013.04.002  
PubMed ID: 23587769  
Document Type: Article

#### References (164)

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#### Metrics View all metrics >

68 Citations in Scopus  
98th Percentile  
7.42 Field-Weighted Citation Impact

PlumX Metrics  
Usage, Captures, Mentions,  
Social Media and Citations  
beyond Scopus.

#### Cited by 68 documents

DNA methylation links genetics, fetal environment, and an unhealthy lifestyle to the development of type 2 diabetes

Nilsson, E., Ling, C.  
(2017) *Clinical Epigenetics*

Aberrant NKG2D expression with IL-17 production of CD4+ T subsets in patients with type 2 diabetes

Phoksawat, W., Jumnainsong, A., Leelayuwat, N.  
(2017) *Immunobiology*

Cohort Profile: Scottish Diabetes Research Network Type 1 Bioresource Study (SDRNT1BIO)

Akbar, T., McGurnaghan, S., Palmer, C.N.  
(2017) *International Journal of Epidemiology*

View all 68 citing documents

Inform me when this document is cited in Scopus:

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#### Related documents

Genetics of type 1 diabetes: What's next?

Pociot, F., Akolkar, B., Concannon, P.  
(2010) *Diabetes*

«Diabetogenic» and «non-diabetogenic» HLA-DRB1-genotype in patients with DM1 in family and population studies

Boldyreva, M.N., Zilberman, L.I., Yankevich, T.E.  
(2015) *Immunobiology*

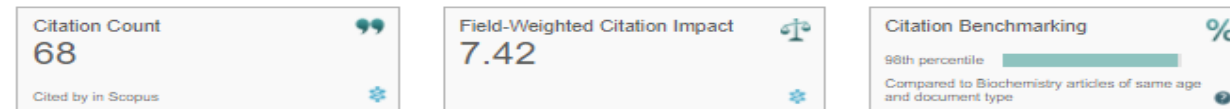
Transmission disequilibrium analysis of 31 type 1 diabetes susceptibility loci in Finnish families  
Laine, A.P., Knip, M., Ilonen, J.

Scopus

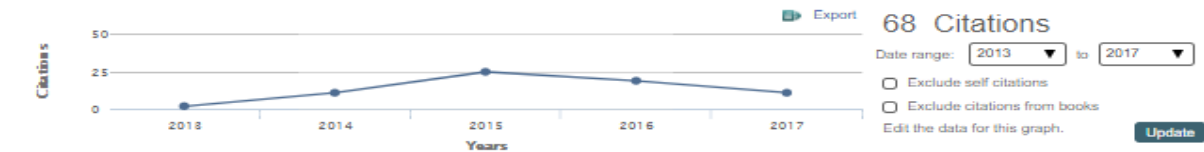
## Metric Details

Genetics of diabetes - Are we missing the genes or the disease? [Back to article](#)  
(2014) Molecular and Cellular Endocrinology, 362(1), pp. 726-739

### Scopus Metrics



### Cited by



### Benchmarking

Measures of activity relative to specific research domains, based on cited by in Scopus  
 Compared to **Biochemistry** articles of the same age and document type  
 All Citations  98TH PERCENTILE



### Usage

EBSCO - Abstract Views: **374**  
 EBSCO - Link-outs: **91**

### Captures

EBSCO - Exports-Saves: **27**  
 Mendeley - Readers: **161**

### Social Media

Twitter - Tweets: **8**

### Citations

CrossRef - Citation Indexes: **61**



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# Part 5: Altmetric

# Using metrics as evidence

## Engagement beyond academia

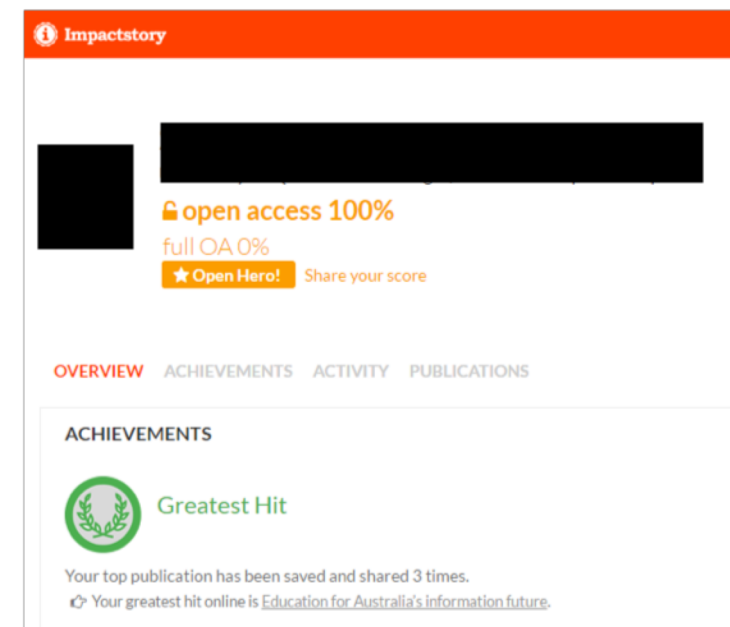
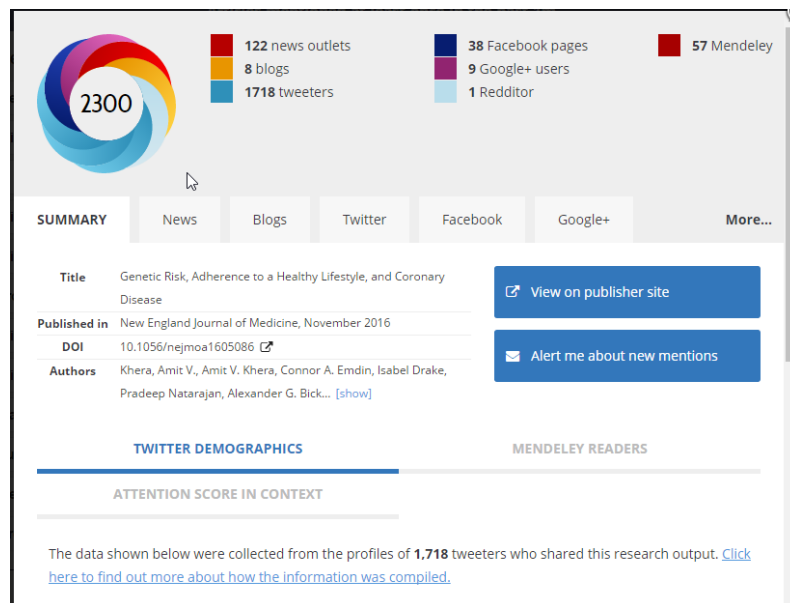
*My publications have been mentioned in news outlets 5 times and cited 4 times in policy documents (Altmetric, April 2018).*

*My papers have been mentioned by a wide international audience including from US, UK, India, Argentina, Mexico, Morocco, Peru by Scientists, Science Communicators, Health Practitioners and the public (Altmetric, April 2018).*

*7 of my papers have outstanding Altmetric Scores (top 5% of all outputs scored by Altmetric), demonstrating interest in my work beyond the scholarly community (Altmetric, April 2018).*

# Alternative metrics

- Attention metrics (i.e., Altmetric.com)
  - Available through UQ eSpace
  - Also good for policy citations
- ImpactStory.com



# Alternative metrics

## ■ Bookmarklet — Altmetric it!

1. Add bookmarklet to your bookmarks toolbar
2. Visit any paper
3. Get article level metrics with a single click



# Other impact measures

- Publons (peer-review contribution)
- How many of your books/chapters are in libraries worldwide?
- Invitations to speak at conferences or other events
- Commissions/consultancies received
- Awards received
- Invitations to boards
- Mentions in or influence over government/education policy



# Using metrics as evidence

**Short track record?**

***Unpack what you have...***

**Look at journal quality**

— All Quartile 1 journals?

**Who is citing your work?**

— Where are they from, why are they citing your work?

**How quickly is your work being cited?**



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# What is it for me?

# Skills that I have developed

- Strong awareness of current trends and issues in research, learning and teaching, scholarly publishing, research outputs and impact, and information resources development within an academic environment
- Excellent competence in learning, teaching, and research support including the ability to use current technologies and information resources relevant to the learning, teaching and research needs within an academic environment
- Good communication, interpersonal, customer service, and teamwork skills with the ability to collaborate and communicate with people at all levels
- Ability to organise workload, adhere to timelines, and work under pressure with a high degree of attention to detail and accuracy either independently or collaboratively in a team environment

# Where to go from here?

- Scholarly communication is a developing area
  - New metrics tools
  - Keep aware of the latest trends and issues in research evaluation (citation and peers assessments) and impact services, research data management, scholarly publishing, institutional repository, and emergent research information services
  - Find new strategies to provide excellent research outputs services
- Metrics knowledge to develop my career as Library and Information Science practitioner-researcher



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# Thank you

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